RAIN Drives Industry 4.0

Welcome to the RAIN RFID Alliance

Steve Halliday
President, RAIN RFID Alliance

RAIN®
RFID

An Introduction – June 2018

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RAIN RFID Alliance

RAIN is a subsidiary of AIM

- **RAIN RFID Alliance was founded in 2014**
  - Increase awareness and understanding of passive UHF RFID (GS1's EPC Gen2 protocol and ISO's 18000-63 standard)

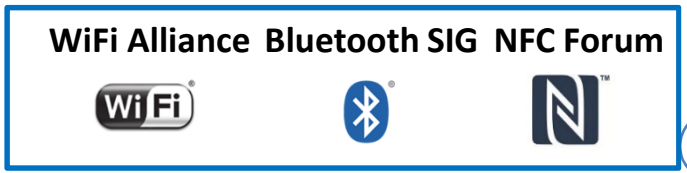
- **Over 160 global members and annual meetings in Americas, Asia and Europe**
  - Alliance members include hardware and software companies, solution providers, academics, and end-users

What is RAIN RFID?

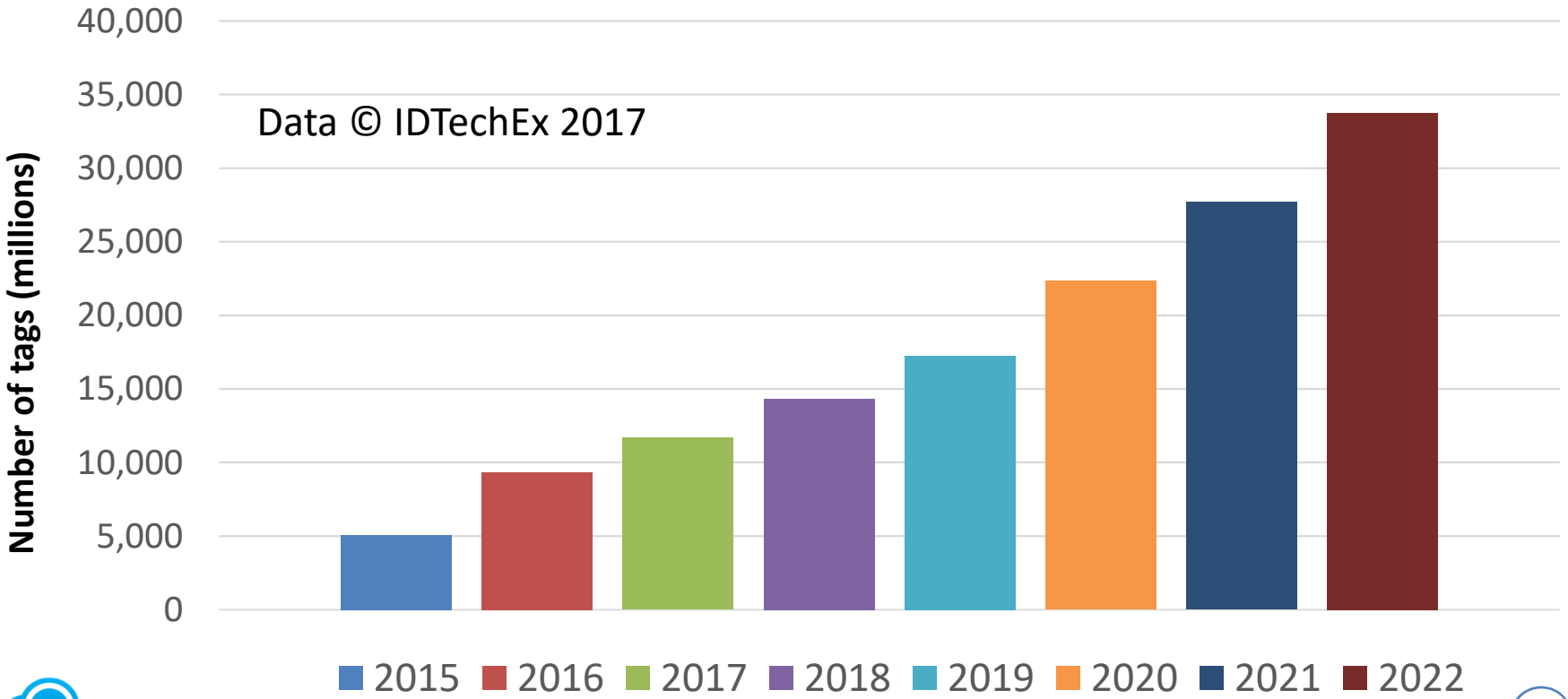
- RAIN RFID is a wireless technology that connects billions of everyday items to the internet, enabling businesses and consumers to identify, locate, authenticate, and engage each item.
- RAIN RFID makes it possible to network *things* without power.
  - >12 billion things tagged in 2017
  - 20 billion annually by 2020

RAIN Brand

- **RFID** is a generic acronym to describe different types of wireless technologies – different frequencies, different standards, passive vs. active, etc. ***This creates confusion.***
- **RAIN** is a brand for a specific passive UHF RFID wireless technology
  - GS1's UHF Gen2 protocol
  - ISO/IEC's 18000-63 standard
- The ultimate goal is for ***"RAIN"*** to be **THE** UHF RFID brand
  - To transition companies and consumers to the RAIN brand, ***"RAIN RFID"*** is currently being used
- Other wireless technology brands, easier for end-users to understand:
  - **WiFi**, instead of IEEE's 802.11 versions
  - **NFC**, instead of HF RFID or ISO/IEC's 14443
  - **Bluetooth**, instead of IEEE's 802.15.1



Tag Sales by Year



www.RAINRFID.org

RAIN RFID

RAIN RFID DELIVERS INTERNET CONNECTIVITY TO BILLIONS OF EVERYDAY THINGS LIKE RAINDROPS TO THE SEA

Home | About Rain | Members | Events | Resources | News | Markets | Technology | Contact Us

BECOME A MEMBER

Join hundreds of other companies in being a member of the RAIN RFID Alliance and have access to information, meetings and more.

WHAT IS RAIN RFID

The RAIN RFID Alliance is a global organization promoting the universal adoption of RAIN technology solutions across many different vertical markets.

RAIN DOCUMENTS

Here you can view and download RAIN Alliance and Member documents, as well as White Papers, E-Books and more.

Overview | Registration | Agenda | Hotel & Travel

REGISTRATION IS NOW OPEN

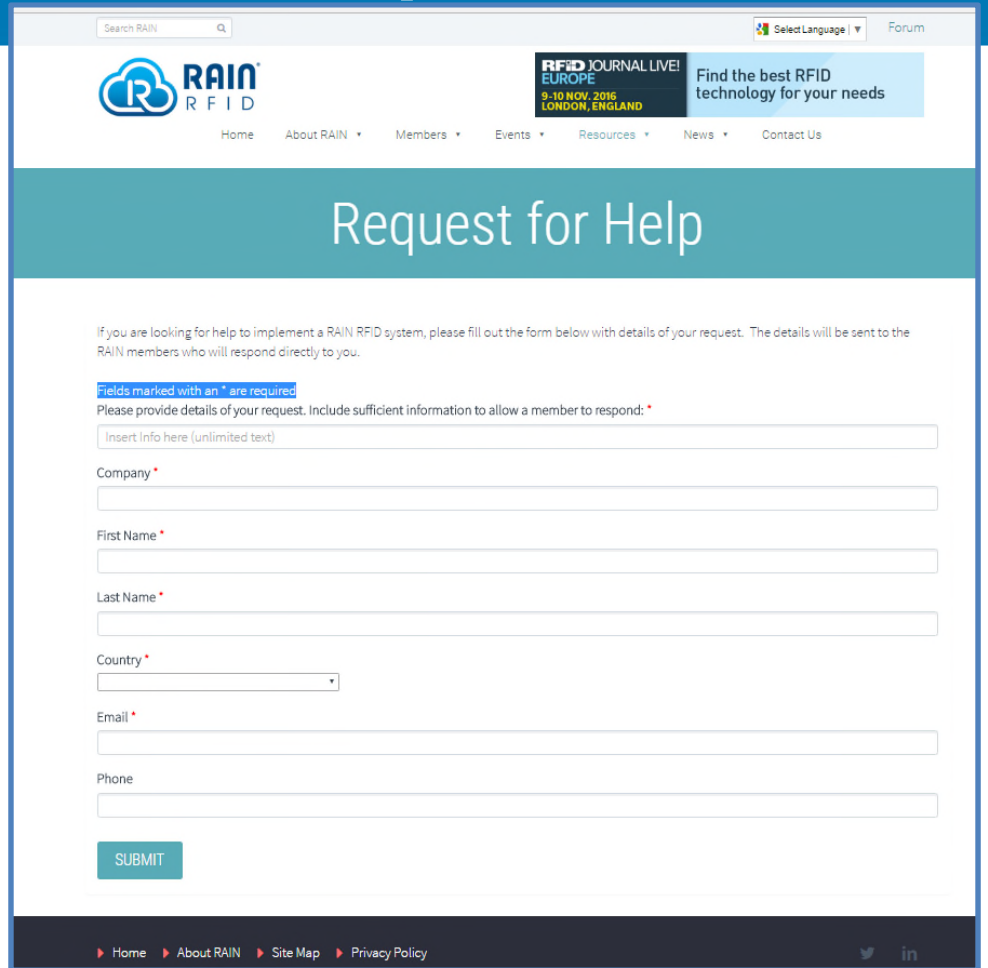
Meeting will be held at the NH DANUBE CITY hotel in Vienna, Austria.

NEW CONTENT ADDED

Thursday (28 June) is NOW open to everyone. Exciting opportunities for networking. Visit the agenda page for details.

Speakers

Request for Help Section



Post your requests for help with your project

http://rainrfid.org/resources/request-for-help/

Workgroups

- Workgroups projects help grow the RAIN RFID technology market
  - Increase awareness & understanding of RAIN RFID
  - Members collaborate to remove barriers to growth
- Currently seven workgroups:
  - Aviation
  - Developers
  - Healthcare
  - IoT
  - Retail
  - Smart Products and Packaging
  - Technical

EU Commission
Regulations for UHF Frequencies

- New regulations in Europe (915-921 MHz) not adopted by countries
- Questions raised about compatibility with Military and Rail use
- Working with GS1 and others to resolve questions
- Eu vote on 11 July to ratify compromise solution

Agenda

9:00 AM	**WELCOME TO RAIN**	**Steve Halliday** **President, RAIN RFID Alliance**
9:20 AM	IT SECURITY IN THE SUPPLY CHAIN WITH BLOCKCHAIN TECHNOLOGY	Christopher Nigischer Project Manager Industrial Competence Center, NXP Semiconductors
10:00 AM	THE AIRLINE BAGGAGE TRACKING CHALLENGE	Helena Marruecos Project Coordinator, End to End Baggage, International Air Transport Association
10:30 AM	BREAK	

Agenda

11:00 AM	**THE FUTURE OF RAIN IN THE AIRLINE INDUSTRY**	**Florent Perrichon** **CEO, Travel Sentry**
11:30 AM	CAN WE IMPROVE PASSENGER EXPERIENCE IN HEATHROW BY USING RFID	Kim Laursen Head of Baggage Design, Heathrow Airport
12:00 PM	DEVELOPING AN APPLICATION SPECIFIC SOLUTIONS FOR RAIN RFID IN SPORTS TIMING	Nikias Klohr Head of R&D and CTO, Race Result AG
12:30 PM	LUNCH	

Agenda

2:00 PM	**... AND ACTION! 12 OUTSTANDING AND INNOVATIVE RAIN RFID PROJECTS FROM AROUND THE GLOBE CINEMATICALLY PRESENTED.**	**Anja Van Bocxlaer** **Founder and Managing Director, RFID im Blick and RFID & Wireless IoT Global**
2:30 PM	RFID @ BOSCH 2018: OPPORTUNITIES AND CHALLENGES FOR A MANUFACTURING COMPANY	Dr. Gerd Scheying Head of the Robert Bosch-Center of Competence RFID@BOSCH , BOSCH
3:00 PM	BREAK	

Agenda

3:30 PM	**MICHELIN R&D – CONNECTED TIRE, RFID INTEGRATION & DESIGN**	**Julien Destraves** **MICHELIN**
4:00 PM	TAMPER EVIDENT RFID – RAIN RFID TAGS FOR SECURITY CRITICAL APPLICATIONS	Christian Mirus Business Development Manager IOT, Identification Technologies, HID Global
4:30 PM	CONCEPT 2020 – ROADMAP FOR HIGH VOLUME RAIN TAG MANUFACTURING & PERSONALIZATION	Thomas Betz Managing Director, Mühlbauer
5:00 PM	CONCLUSION	
6:00 PM	SIGHTSEEING AND DINNER	

RAIN – Enabling the IoT

- Unique item identification
- Low cost
- Batteries not required
- Line-of-sight not needed
- Long or short range
- Security availability
- Connects to sensors

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